

# DC Gearmotors

100 mNm

with flat ironless rotor

## Series 2619 ... SR

	2619 S	003 SR	006 SR	012 SR	024 SR	
Nominal voltage	$U_N$	3	6	12	24	Volt
Terminal resistance	R	1,9	8,2	36,5	128	$\Omega$
Output power	$P_{2 \max}$	1,16	1,08	0,97	1,1	W
No-load speed (motor)	$n_o$	6 300	6 600	5 900	6 200	rpm
Speed constant	$k_n$	2 129	1 111	500	261	rpm/V
Back-EMF constant	$k_E$	0,47	0,9	2	3,83	mV/rpm
Torque constant	$k_M$	4,49	8,59	19,09	36,54	mNm/A
Current constant	$k_i$	0,223	0,116	0,052	0,027	A/mNm
Slope of n-M curve	$\Delta n / \Delta M$	902	1 055	957	917	rpm/mNm
Rotor inductance	L	120	465	2 200	8 400	$\mu H$
Rotor inertia	J	0,68	0,68	0,68	0,68	gcm <sup>2</sup>

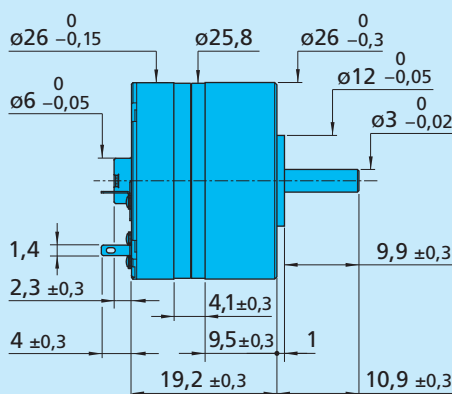
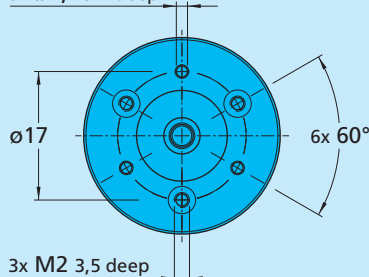
Housing material	plastic	
Geartrain material	metal	
Backlash, at no-load	$\leq 4$	°
Bearings on output shaft	brass / ceramic bearings	ball bearings
Shaft load max.:	(standard)	(optional)
– radial (3 mm from bearing)	$\leq 5$	15
– axial	$\leq 2$	5
Shaft press fit force, max.	$\leq 10$	10
Shaft play:		
– radial (5 mm from mounting face)	$\leq 0,07$	0,03
– axial	$\leq 0,25$	0,25
Operating temperature range	– 30 ... + 80	°C

## Specifications

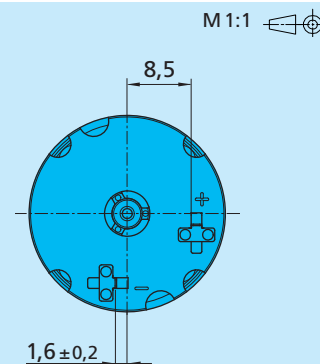
reduction ratio (rounded)	output speed up to	weight with motor	output continuous operation	output torque intermittent operation	direction of rotation (reversible)	efficiency
8 : 1	635	25	9	30	=	81
22 : 1	223	26	23	75	≠	73
33 : 1	151	26	30	100	=	60
112 : 1	44	27	93	180	≠	59
207 : 1	24	27	100	180	=	53
361 : 1	14	27	100	180	=	53
814 : 1	6	28	100	180	=	43
1 257 : 1	4	29	100	180	=	43

Orientation with respect to motor  
terminals  $\pm 10^\circ$

3x  $\phi 1,48$  4 deep



2619 S



## How to Order a 2619 ... SR

Part number	Voltage	Description	Stocked items
2619S003SR 8:1	3	Standard motor with 8:1 ratio	yes
2619S003SR 22:1	3	Standard motor with 22:1 ratio	yes
2619S003SR 33:1	3	Standard motor with 33:1 ratio	yes
2619S003SR 112:1	3	Standard motor with 112:1 ratio	yes
2619S003SR 207:1	3	Standard motor with 207:1 ratio	yes
2619S003SR 361:1	3	Standard motor with 361:1 ratio	yes
2619S003SR 814:1	3	Standard motor with 814 ratio	yes
2619S003SR 1257:1	3	Standard motor with 1,257:1 ratio	yes
2619S006SR 8:1	6	Standard motor with 8:1 ratio	yes
2619S006SR 22:1	6	Standard motor with 22:1 ratio	yes
2619S006SR 33:1	6	Standard motor with 33:1 ratio	yes
2619S006SR 112:1	6	Standard motor with 112:1 ratio	yes
2619S006SR 207:1	6	Standard motor with 207:1 ratio	yes
2619S006SR 361:1	6	Standard motor with 361:1 ratio	yes
2619S006SR 814:1	6	Standard motor with 814 ratio	yes
2619S006SR 1257:1	6	Standard motor with 1,257:1 ratio	yes
2619S012SR 8:1	12	Standard motor with 8:1 ratio	yes
2619S012SR 22:1	12	Standard motor with 22:1 ratio	yes
2619S012SR 33:1	12	Standard motor with 33:1 ratio	no
2619S012SR 112:1	12	Standard motor with 112:1 ratio	yes
2619S012SR 207:1	12	Standard motor with 207:1 ratio	no
2619S012SR 361:1	12	Standard motor with 361:1 ratio	yes
2619S012SR 814:1	12	Standard motor with 814 ratio	yes
2619S012SR 1257:1	12	Standard motor with 1,257:1 ratio	yes
2619S024SR 8:1	24	Standard motor with 8:1 ratio	yes
2619S024SR 22:1	24	Standard motor with 22:1 ratio	yes
2619S024SR 33:1	24	Standard motor with 33:1 ratio	yes
2619S024SR 112:1	24	Standard motor with 112:1 ratio	yes
2619S024SR 207:1	24	Standard motor with 207:1 ratio	yes
2619S024SR 361:1	24	Standard motor with 361:1 ratio	yes
2619S024SR 814:1	24	Standard motor with 814 ratio	yes
2619S024SR 1257:1	24	Standard motor with 1,257:1 ratio	no